R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I - Semester Examinations, March/April 2011
NETWORK PROGRAMMING
(COMMON TO COMPUTER NETWORKS, COMPUTER NETWORKS AND
INFORMATION SECURITY)

Time: 3hours   **Max. Marks: 60**

Answer any five questions
All questions carry equal marks
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1. a. Explain the Linux file handling utilities.
   b. How will you set permissions for Owner, Group and Public? Explain with an
      example.   [12]

2. a. Write a shell program to arrange the set of numbers in descending and ascending
      order.
   b. Discuss the features of awk.   [12]

3. a. Explain about signal generation and handling.
   b. What is an orphan process? How is it created?   [12]

4. Explain the system calls for file management
         a) Create
         b) Lseek
         c) Stat
         d) Read and write

5. a. Explain how IPC is implemented between processes on different computer systems.
   b. Explain the operation of FIFO with an example.   [12]

6. What is a semaphore? Explain the Linux APIs for semaphores?   [12]

7. Explain the socket system calls for connection oriented communication.   [12]

8. Explain the RPC model and the transparency issues handling in sun RPC?   [12]

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